

Figure 1

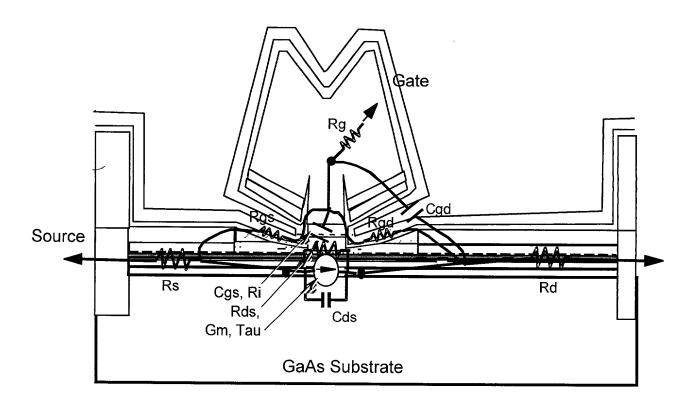


Figure 2

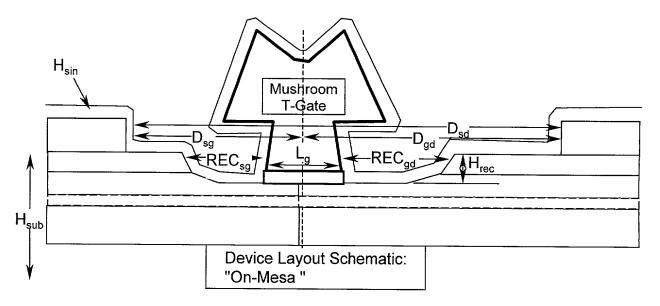


Figure 3

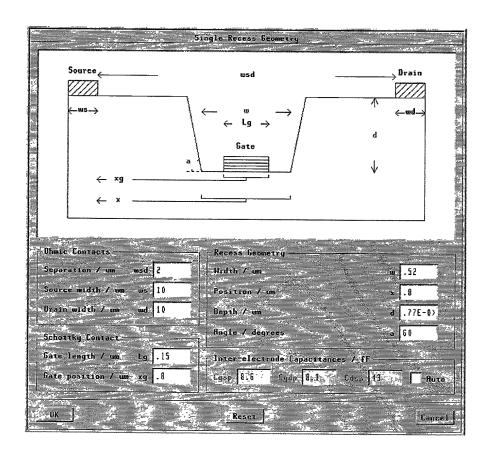


Figure 4

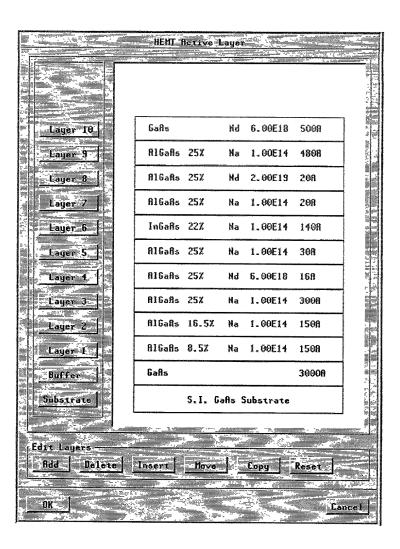


Figure 5

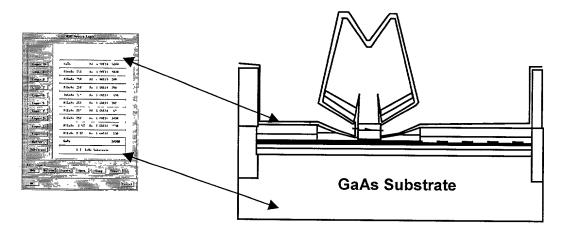


Figure 6

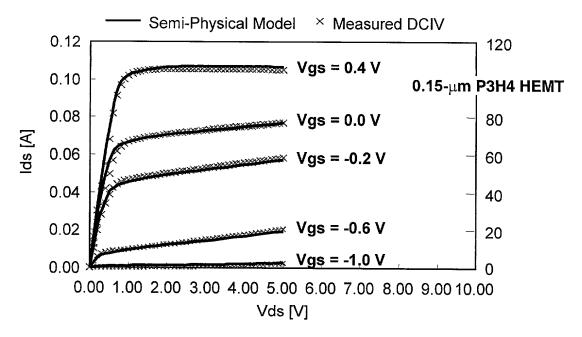


Figure 7

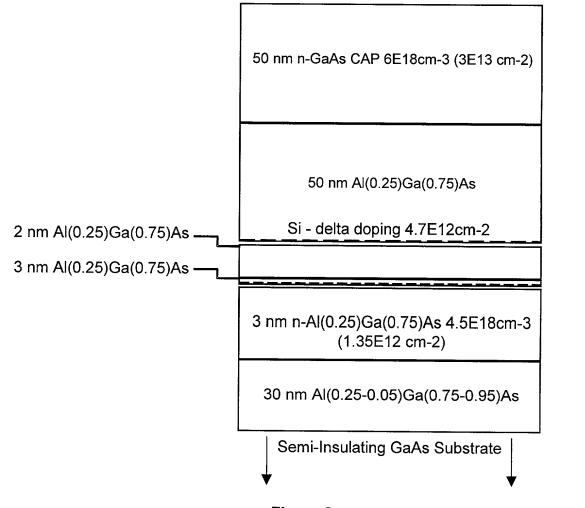


Figure 8

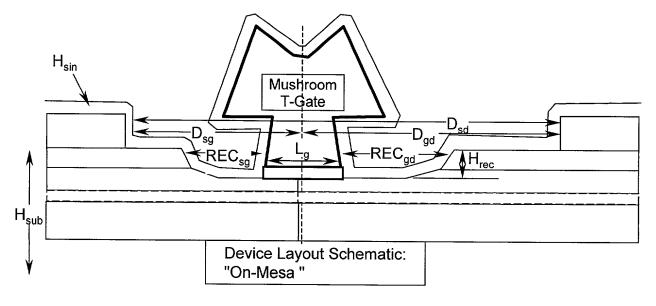


Figure 9

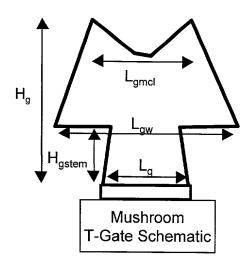


Figure 10

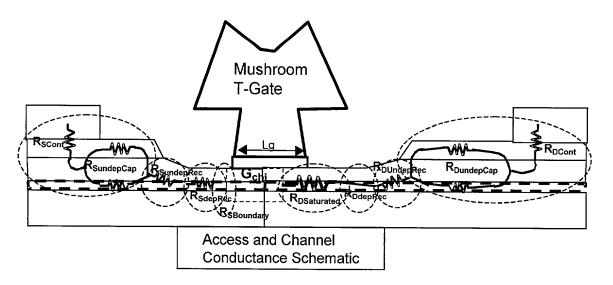
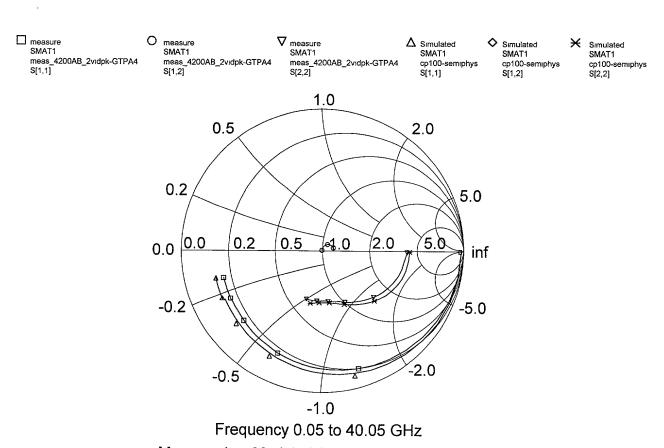
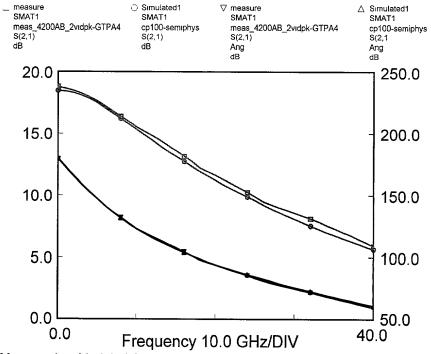


Figure 11



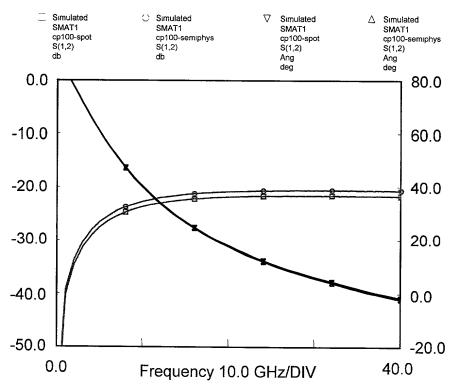
Measured vs Modeled S-parameters Simulated Equivalent Circuit Element Values via Semi-Physical HEMT Model

Figure 12



Measured vs Modeled S12 Simulated Equivalent Circuit Element Values via Semi-Physical HEMT Model

Figure 13



Measured vs Modeled S12 Simulated Equivalent Circuit Element Values via Semi-Physical HEMT Model

Figure 14

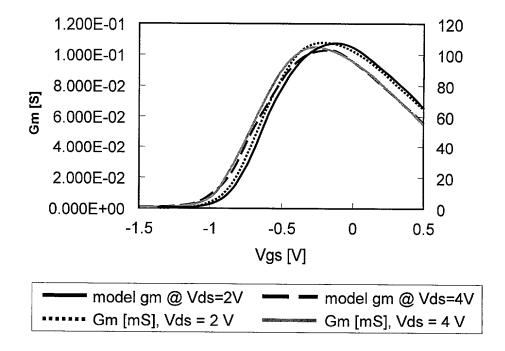


Figure 15

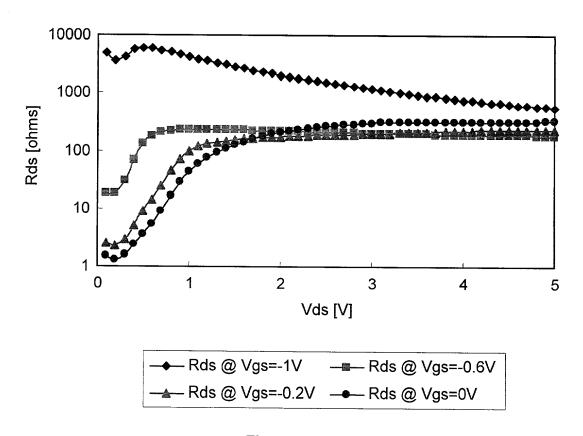


Figure 16

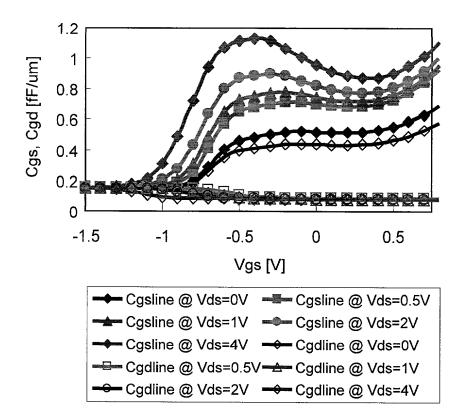


Figure 17

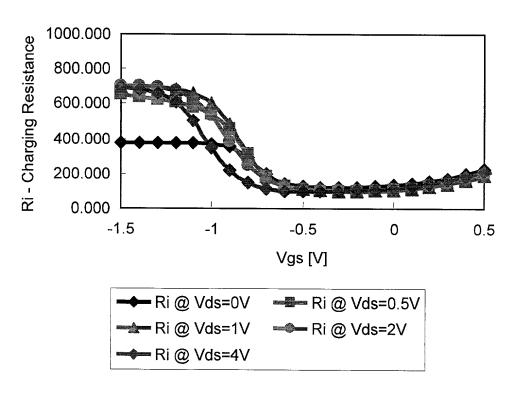


Figure 18

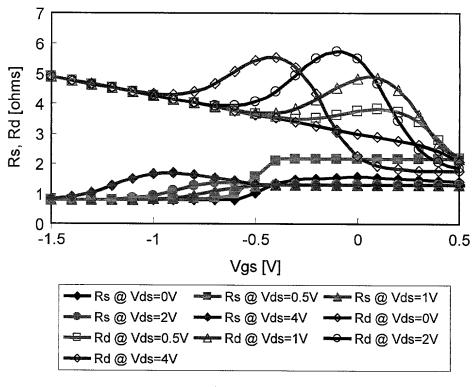


Figure 19

Measured vs Simulated Bias- Dependent Gain @ 23.5 GHz

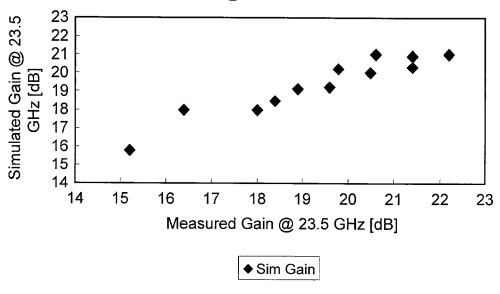


Figure 20

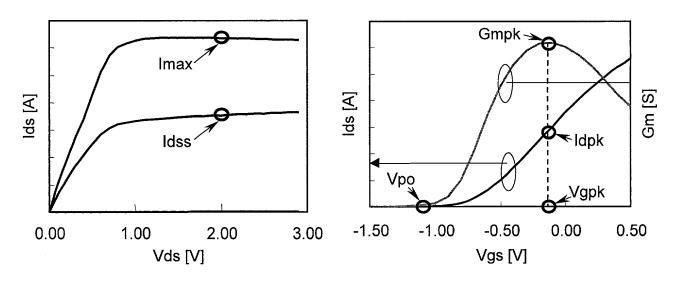


Figure 21A

Figure 21B

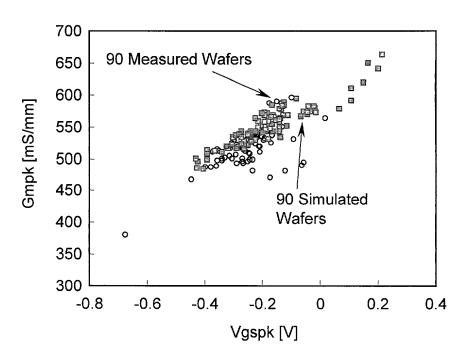


Figure 22

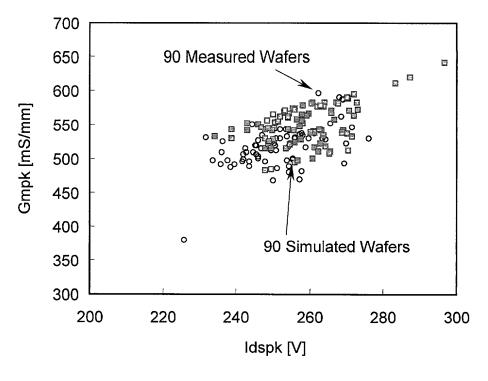


Figure 23

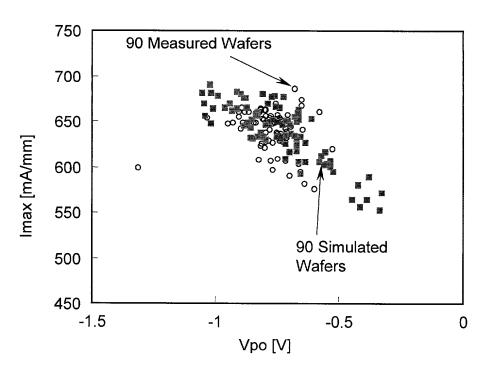


Figure 24

